

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER: \_\_\_\_\_**

**IMAGES ARE BEST AVAILABLE COPY.**

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.



# STIC Search Report

EIC 2100

STIC Database Tracking Number: 119561

**TO:** Baoqnoc To  
**Location:** 4A42  
**Art Unit :** 22172  
**Wednesday, August 25, 2004**

**From:** David Holloway  
**Location:** EIC 2100  
**PK2-4B30**  
**Phone:** 308-7794

**david.holloway@uspto.gov**

## Search Notes

Dear Examiner To:

Attached please find your search results for above-referenced case.

Please contact me if you have any questions or would like a re-focused search.

David



# STIC EIC 2100

## Search Request Form

Today's Date:

08/25/04

What date would you like to use to limit the search?

Priority Date: 04/04/2001 Other: \_\_\_\_\_

Name TD BAUERAU 2172 Examiner # 78889Room # 4A42 Phone 305 1949Serial # 09 768 747

Format for Search Results (Circle One):

 PAPER

DISK

EMAIL

Where have you searched so far?

 USP DWPI EPO JPO ACM IBM TDB IEEE INSPEC SPI

Other \_\_\_\_\_

Is this a "Fast & Focused" Search Request? (Circle One)  YES  NOA "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

Send the 1 update message with  
one portion (token + chg)

If client response then send the  
second portion + chg

If the response not received back from  
client, then send 1 + 2 mess to  
the client

707 455 370

STIC Searcher David Holloway Phone 305 7774Date picked up 8-25-04 Date Completed 8-25-04

Set Items Description  
S1 465695 UPDAT? OR UP() (DATE? OR DATING) OR SYNC OR SYNCs OR SYNCHR-  
ONI?  
S2 176417 SERVER? OR MESSAGE SERVER?  
S3 23652 TOKEN?  
S4 3637385 RESPONs? OR ACKNOWLEDGE? OR ACK? ? OR NOTIFICATION?  
S5 13934157 SECOND OR 2ND OR ADDITIONAL? OR NEXT? OR NEW? OR MORE? OR -  
PART(N) (TWO OR 2)  
S6 26383 MULTIPART? OR (MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURA-  
LITY OR MANY OR SEVERAL)(N) (PART? ? OR SEGMENT?)  
S7 103109 SERVERSIDE? OR SERVER() SIDE? OR PUSH?  
S8 3 S1 AND S2 AND S3 AND S4 AND S5  
S9 0 S1 AND S2 AND S3 AND S6  
S10 3 S1 AND S2 AND S3 AND S4 AND (S5 OR S6)  
S11 656 S7 AND S1 AND (S5 OR S6)  
S12 2 S11 AND S3  
S13 60 S11 AND S4  
S14 65 S8 OR S12 OR S13  
S15 53 RD (unique items)  
S16 45 S15 NOT PY>2001  
S17 158 S7(4N)S1  
S18 2 S16 AND S17  
File 8:Ei Compendex(R) 1970-2004/Aug W3  
(c) 2004 Elsevier Eng. Info. Inc.  
File 35:Dissertation Abs Online 1861-2004/Jul  
(c) 2004 Proquest Infotainment  
File 202:Info. Sci. & Tech. Abs. 1966-2004/Jul 12  
(c) 2004 EBSCO Publishing  
File 65:Inside Conferences 1993-2004/Aug W4  
(c) 2004 BLDSC all rts. reserv.  
File 2:INSPEC 1969-2004/Aug W3  
(c) 2004 Institution of Electrical Engineers  
File 94:JICST-EPlus 1985-2004/Aug W1  
(c) 2004 Japan Science and Tech Corp (JST)  
File 111:TGG Natl. Newspaper Index(SM) 1979-2004/Aug 25  
(c) 2004 The Gale Group  
File 233:Internet & Personal Comp. Abs. 1981-2003/Sep  
(c) 2003 EBSCO Pub.  
File 6:NTIS 1964-2004/Aug W3  
(c) 2004 NTIS, Intl Cpyrht All Rights Res  
File 144:Pascal 1973-2004/Aug W3  
(c) 2004 INIST/CNRS  
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info  
File 34:SciSearch(R) Cited Ref Sci 1990-2004/Aug W3  
(c) 2004 Inst for Sci Info  
File 62:SPIN(R) 1975-2004/Jun W4  
(c) 2004 American Institute of Physics  
File 99:Wilson Appl. Sci & Tech Abs 1983-2004/Jul  
(c) 2004 The HW Wilson Co.  
File 95:TEME-Technology & Management 1989-2004/Jun W1  
(c) 2004 FIZ TECHNIK

01741759 ORDER NO: AADAA-I9969041

**Collaborative and real-time transaction processing techniques in  
client-server database architectures**

Author: Kanitkar, Vinay Vasant

Degree: Ph.D.

Year: 2000

Corporate Source/Institution: Polytechnic University (0179)

Adviser: Alex Delis

Source: VOLUME 61/04-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 2036. 194 PAGES

Descriptors: COMPUTER SCIENCE

Descriptor Codes: 0984

Implementations of contemporary database systems have often been based on the client-server framework. Client-server databases (CSD) have utilized the processing capabilities and network bandwidths available today in order to successfully manage data and provide high transaction throughput. However, real-time transaction processing in a CSD environment has not been examined in much detail. This is an important **new** area of research as deployments of CSDs over local area networks and the world-wide web proliferate.

Initially, we study the efficiency of CSDs for real-time processing. We also propose a **new** policy for scheduling transactions that assigns higher priorities to transactions that have **more** of their required data available locally. Then, in order to further improve the efficiency of a CSD, we propose a load-sharing mechanism that co-ordinates the movement of data and transactions so as to process each transaction at the site that offers the highest probability of successful completion. The suitability of a client for processing a transaction is measured with respect to the availability of the transaction's required data in its local cache.

Since the above study of real-time transaction processing was performed in a pessimistic locking environment, we now present two techniques for propagating data **updates** to sites that have expressed an interest in that data. The objective is to avoid the frequent transaction blocking seen in CSDs that use pessimistic locking. Here, the actual propagation of **updates** is performed by shipping the **update** transactions themselves to the sites that are interested in receiving the **update** data. A rule-based mechanism ensures that **updates** are **pushed** to clients only when the contents of the data match client-specified criteria.

Finally, we introduce an optimistic transaction processing mechanism that advocates the elimination of pessimistic locking traditionally used in CSDs. Instead, we propose a protocol that allows transactions at various sites to **update** locally cached objects without having to acquire a global exclusive locks. Inconsistencies in copies of objects that have been maintained at multiple sites are resolved by a **second** stage of transaction processing at the server. The key premise is that in some application areas, users may be willing to trade-off a small degree of inaccuracy in the results of their queries in return for an improvement in their transactions' **response** times.

Set	Items	Description
S1	726797	UPDAT? OR UP() (DATE? OR DATING) OR SYNC OR SYNCs OR SYNCHR- ONI?
S2	638303	SERVER? OR MESSAGE SERVER?
S3	67780	TOKEN?
S4	3939915	RESPONS? OR ACKNOWLEDGE? OR ACK? ? OR NOTIFICATION?
S5	17321122	SECOND OR 2ND OR ADDITIONAL? OR NEXT? OR NEW? OR MORE? OR - PART(N) (TWO OR 2)
S6	33810	MULTIPART? OR (MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURA- LITY OR MANY OR SEVERAL) (N) (PART? ? OR SEGMENT?)
S7	333445	SERVERSIDE? OR SEVER() SIDE? OR PUSH?
S8	48	S1 AND S2 AND S3 AND S4 AND S5 AND S6
S9	16	S1 AND S7 AND S3 AND S4 AND S5 AND S6
S10	49	(S8 OR S9)
S11	43	RD (unique items)
S12	42	S11 NOT PY>2001
File	8:Ei Compendex(R) 1970-2004/Aug W3	
		(c) 2004 Elsevier Eng. Info. Inc.
File	35:Dissertation Abs Online 1861-2004/Jul	
		(c) 2004 ProQuest Info&Learning
File	202:Info. Sci. & Tech. Abs. 1966-2004/Jul 12	
		(c) 2004 EBSCO Publishing
File	65:Inside Conferences 1993-2004/Aug W4	
		(c) 2004 BLDS all rts. reserv.
File	2:INSPEC 1969-2004/Aug W3	
		(c) 2004 Institution of Electrical Engineers
File	94:JICST-EPlus 1985-2004/Aug W1	
		(c) 2004 Japan Science and Tech Corp (JST)
File	111:TGG Natl. Newspaper Index(SM) 1979-2004/Aug 25	
		(c) 2004 The Gale Group
File	233:Internet & Personal Comp. Abs. 1981-2003/Sep	
		(c) 2003 EBSCO Pub.
File	144:Pascal 1973-2004/Aug W3	
		(c) 2004 INIST/CNRS
File	34:SciSearch(R) Cited Ref Sci 1990-2004/Aug W3	
		(c) 2004 Inst for Sci Info
File	99:Wilson Appl. Sci & Tech Abs 1983-2004/Jul	
		(c) 2004 The HW Wilson Co.
File	95:TEME-Technology & Management 1989-2004/Jun W1	
		(c) 2004 FIZ TECHNIK
File	275:Gale Group Computer DB(TM) 1983-2004/Aug 25	
		(c) 2004 The Gale Group
File	674:Computer News Fulltext 1989-2004/Aug W2	
		(c) 2004 IDG Communications
File	647:CMP Computer Fulltext 1988-2004/Aug W3	
		(c) 2004 CMP Media, LLC
File	636:Gale Group Newsletter DB(TM) 1987-2004/Aug 25	
		(c) 2004 The Gale Group

Set	Items	Description
S1	322010	UPDAT? OR UP() (DATE? OR DATING) OR SYNC OR SYNCs OR SYNCHR- ONI?
S2	138348	SERVER? OR MESSAGESERVER?
S3	8926	TOKEN?
S4	551283	RESPONS? OR ACKNOWLEDGE? OR ACK? ? OR NOTIFICATION?
S5	4467440	SECOND OR 2ND OR ADDITIONAL? OR NEXT? OR NEW? OR MORE? OR - PART(N) (TWO OR 2)
S6	12579	MULTIPART? OR (MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURA- LITY OR MANY OR SEVERAL) (N) (PART? ? OR SEGMENT?)
S7	348036	SERVERSIDE? OR SEVER() SIDE? OR PUSH?
S8	6	S1 AND S2 AND S3 AND S4 AND S5
S9	0	S1 AND S2 AND S3 AND S6
S10	3336	S1 AND S7
S11	168	S10 AND S4
S12	58	S11 AND (S5 OR S6)
S13	64	S12 OR S8
S14	1	S13 AND IC=G06F-012?
S15	19	S13 AND IC=G06F?
S16	14	S1 AND (S2 OR S7) AND S3 AND S4
S17	28	S16 OR S15
S18	28	IDPAT (sorted in duplicate/non-duplicate order)
S19	27	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2004/Apr (Updated 040802)

(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM & UP=200454

(c) 2004 Thomson Derwent

19/5/7 (Item 7 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014885375 \*\*Image available\*\*  
WPI Acc No: 2002-706081/200276  
XRPX Acc No: N02-556662

Data synchronization method used in personal computer, handheld device, involves sending notification comprising change of data and token identifying change to receiving device  
Patent Assignee: MICROSOFT CORP (MICKT ); FISHMAN N S (FISH-I); KADYK D J (KADY-I); SEINFELD M E (SEIN-I)

Inventor: FISHMAN N S; KADYK D J; SEINFELD M E

Number of Countries: 027 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020099727	A1	20020725	US 2001768747	A	20010124	200276 B
EP 1227396	A1	20020731	EP 2002878	A	20020115	200276

Priority Applications (No Type Date): US 2001768747 A 20010124

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020099727	A1	16		G06F-012/00	
EP 1227396	A1	E		G06F-009/445	

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI TR

Abstract (Basic): US 20020099727 A1

NOVELTY - The data (218) is changed and notification (290) comprising both the change (292) and a token (294) identifying the change is sent to a receiving device. A synchronization request is received from the device and the change is resend to the device if the request does not include the token .

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Data synchronization system; and
- (2) Computer programmable product storing data synchronization instructions.

USE - Used in PC, handheld device, multi-processor system, microprocessor-based or programmable consumer electronics, network PC, minicomputer, mainframe computer, local and remote processing device for synchronizing data.

ADVANTAGE - The data is efficiently synchronized using the notification send to the receiving device and the notification can be updated without imposing burden on the user.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the data structures and communication channels for synchronizing client data with server data.

Data (218)

Notification (290)

Change (292)

Token (294)

pp; 16 DwgNo 2/4

Title Terms: DATA; SYNCHRONISATION ; METHOD; PERSON; COMPUTER; DEVICE; SEND; NOTIFICATION ; COMPRISE; CHANGE; DATA; TOKEN ; IDENTIFY; CHANGE; RECEIVE; DEVICE

Derwent Class: T01; W01

International Patent Class (Main): G06F-009/445; G06F-012/00

International Patent Class (Additional): G06F-009/44; H04L-029/06

File Segment: EPI

19/5/8 (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014877125 \*\*Image available\*\*

WPI Acc No: 2002-697831/200275

XRPX Acc No: N02-550288

Communication network e.g. Internet has client to insert its cell ID in updated request on receiving initial response including token with location information insertion field from server

Patent Assignee: MOTOROLA INC (MOTI ); HILL C (HILL-I); JANO B (JANO-I); PHILLIPS G (PHIL-I); SOUSSI S (SOUSSI-I)

Inventor: HILL C; JANO B; PHILLIPS G; SOUSSI S

Number of Countries: 100 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020103936	A1	20020801	US 2001775036	A	20010201	200275 B
WO 200261600	A1	20020808	WO 2002US1946	A	20020123	200275
AU 2002236847	A1	20020812	AU 2002236847	A	20020123	200427

Priority Applications (No Type Date): US 2001775036 A 20010201

Patent Details:

Patent No. Kind Lan Pg Main IPC Filing Notes

US 20020103936 A1 15 G06F-015/16

WO 200261600 A1 E G06F-015/16

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA

CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IE IN

IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ

OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA

ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR

IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

AU 2002236847 A1 G06F-015/16 Based on patent WO 200261600

Abstract (Basic): US 20020103936 A1

NOVELTY - A **server** transmits an initial **response** including a **token** with location information insertion field to a client through a gateway, on receiving a web page request from the client. The client transmits an **updated** request with its cell ID to the gateway. The gateway inserts client's location information from a GPS **server** with the request, and transmits to the **server** for obtaining required web page.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for location information transferring-collecting method.

USE - Communication network e.g. Internet accessed by WAP enabled wireless device such as mobile phone, pager, two-way radio, smart phone.

ADVANTAGE - Allows implementation of the insertion of location information to be dynamically dependent on network characteristics and **server** loads and thus provides **more** flexible process of location information collection and transfer.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart illustrating client location information insertion procedure.

pp; 15 DwgNo 5/9

Title Terms: COMMUNICATE; NETWORK; CLIENT; INSERT; CELL; ID; UPDATE ; REQUEST; RECEIVE; INITIAL; RESPOND; TOKEN ; LOCATE; INFORMATION; INSERT; FIELD; SERVE

Derwent Class: T01; W01; W02; W05; W06

International Patent Class (Main): G06F-015/16

File Segment: EPI

19/5/10 (Item 10 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014284459 \*\*Image available\*\*  
WPI Acc No: 2002-105160/200214  
XRPX Acc No: N02-078187

**Monitoring apparatus for synchronizing distributed computer systems, connects host systems and server system over communication link so that server system transfers polling message to host systems for reboot**  
Patent Assignee: INTEL CORP (ITLC )  
Inventor: DENT D E; JACOBSON J E

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6317879	B1	20011113	US 97988948	A	19971211	200214 B

Priority Applications (No Type Date): US 97988948 A 19971211

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6317879	B1	15		G06F-009/445	

Abstract (Basic): US 6317879 B1

NOVELTY - A reset logic connected with a monitor logic resets the host systems and reboots off the polling process in the host systems in response to the output of the monitor logic that determine whether the host systems are to be resynchronized. The host systems and server system are connected over communication link so that the polling message is transferred from server system to host systems for reboot.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) Distributed host system monitoring method;  
(b) Computer readable medium storing host system monitoring program  
USE - For controlling entertainment system including home theater, security system, home automation system, Internet appliances for synchronizing the distributed computer systems in different environments including single family and multi family dwellings, and also in offices, industrial settings, toll collection facility and space stations.

ADVANTAGE - Since each of multiple distributed host systems obtains its operating system information from a common server system, the changes to operating system information is made in a common server without requiring the user to access each of the distributed systems individually.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart illustrating steps followed by host system in receiving and transmitting wellness token .

pp; 15 DwgNo 3/6

Title Terms: MONITOR; APPARATUS; DISTRIBUTE; COMPUTER; SYSTEM; CONNECT; HOST; SYSTEM; SERVE; SYSTEM; COMMUNICATE; LINK; SO; SERVE; SYSTEM; TRANSFER; POLL; MESSAGE; HOST; SYSTEM

Derwent Class: T01; T05

International Patent Class (Main): G06F-009/445

File Segment: EPI

19/5/12 (Item 12 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

013632273 \*\*Image available\*\*

WPI Acc No: 2001-116481/200113

XRPX Acc No: N01-085942

**Users authentication system for client and server system, has updating units which respectively update random numbers in first and second cache tables, and new common locks**

Patent Assignee: NEC SOFTWARE KYUSHU LTD (KYUN )

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000339270	A	20001208	JP 99146878	A	19990526	200113 B
JP 3498008	B2	20040216	JP 99146878	A	19990526	200413

Priority Applications (No Type Date): JP 99146878 A 19990526

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 2000339270 A 17 G06F-015/00

JP 3498008 B2 16 G06F-015/00 Previous Publ. patent JP 2000339270

Abstract (Basic): JP 2000339270 A

~~NOVELTY - An updating unit (16,26) is used to respectively update the first, second, third, and fourth random numbers in a second cache table, and a new common lock. Another updating unit is used to respectively update the first, second, third, and fourth random numbers in a first cache table, and a new common lock.~~

~~DETAILED DESCRIPTION - An authentication response token receiver is used to produce the new common key from the fourth random number. The authentication response token receiver obtains the authentication response token, including the fourth random number, from a server (2). A completion token generation and transmitting unit (15) sends out the completion token, including the second random number, to a server. A completion token receiver (25) obtains completion token from the client (1). INDEPENDENT CLAIMS are also included for the following:~~

- (a) a users authentication procedure;
- (b) and a recording medium.

USE - For client and server system.

ADVANTAGE - Improves reliability of the users authentication system without affecting its capability. Reduces the possibility that a common key is intercepted since the common key is updated for every authentication.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the users authentication system.

Client (1)

Server (2)

Completion token generation and transmitting unit (15)

Updating unit (16,26)

Completion token receiver (25)

pp; 17 DwgNo 1/13

Title Terms: USER; AUTHENTICITY; SYSTEM; CLIENT; SERVE; SYSTEM; UPDATE ; UNIT; RESPECTIVE; UPDATE ; RANDOM; NUMBER; FIRST; SECOND ; CACHE; TABLE ; NEW ; COMMON; LOCK

Derwent Class: T01; W01

International Patent Class (Main): G06F-015/00

International Patent Class (Additional): H04L-009/32

File Segment: EPI

19/5/15 (Item 15 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

012180537 \*\*Image available\*\*  
WPI Acc No: 1998-597450/199851  
XRPX Acc No: N98-464957

Updating client version of server data for data processing system - involves server sending data to client along with bind token to indicate version of data, to be incorporated into client's next request in service context

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )  
Inventor: BAINBRIDGE A J; COCKS S J; FERGUSON D F; FREUND T; LEFF A;  
NORMINGTON G; RAYFIELD J T; STOREY R A

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
GB 2326000	A	19981209	GB 988553	A	19980423	199851	B
US 6161145	A	20001212	US 97853382	A	19970508	200067	
GB 2326000	B	20011121	GB 988553	A	19980423	200201	

Priority Applications (No Type Date): US 97853382 A 19970508

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2326000	A	20		G06F-001/00	
US 6161145	A			G06F-015/16	
GB 2326000	B			G06F-001/00	

Abstract (Basic): GB 2326000 A

The method involves a control point **server** (13) receiving a request from the client (11) for **server** related data to be transferred. In response to the request, the control point **server** sends the data to the client along with a unique bind **token** which identifies the version number of the data.

The client uses the **server** -related data to form another request for the **server** (12) to perform part of the client's processing. The **server** sends the bind **token** to the **server** as part of the request, in a service context.

ADVANTAGE - The client's version of the **server** -related data can be updated without adding a large amount of function to the client, allowing the client to remain ''thin'' consistent with the modern trend towards network computing where most of the function is located on **servers** rather than clients.

Dwg.1/8

Title Terms: UPDATE ; CLIENT; VERSION; SERVE; DATA; DATA; PROCESS; SYSTEM; SERVE; SEND; DATA; CLIENT; BIND; TOKEN ; INDICATE; VERSION; DATA; INCORPORATE; CLIENT; REQUEST; SERVICE; CONTEXT

Derwent Class: T01

International Patent Class (Main): G06F-001/00 ; G06F-015/16

International Patent Class (Additional): G06F-009/46

File Segment: EPI

19/5/18 (Item 18 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

008662546 \*\*Image available\*\*

WPI Acc No: 1991-166573/199123

XRPX Acc No: N91-127699

Data interface system e.g. for vehicle engine - has data signal pushed from microcomputer to interface to be held in latch, and pulled out from second latch

Patent Assignee: MOTOROLA INC (MOTI )

Inventor: BURRI M

Number of Countries: 005 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
GB 2238694	A	19910605	GB 8927317	A	19891202	199123	B
EP 431434	A	19910612	EP 90122513	A	19901126	199124	
EP 431434	A3	19911227	EP 90122513	A	19901126	199312	
EP 431434	B1	19990224	EP 90122513	A	19901126	199912	
DE 69032959	E	19990401	DE 632959	A	19901126	199919	
			EP 90122513	A	19901126		

Priority Applications (No Type Date): GB 8927317 A 19891202

Cited Patents: NoSR.Pub; 1.Jnl.Ref; EP 258872; US 4144583; US 4408272

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

GB 2238694 A 27

EP 431434 A

Designated States (Regional): DE FR GB IT NL

EP 431434 B1 E G06F-013/42

Designated States (Regional): DE FR GB IT NL

DE 69032959 E G06F-013/42 Based on patent EP 431434

Abstract (Basic): GB 2238694 A

The interface system is coupled to a number of devices to be monitored and controlled by a processor, e.g. a microcomputer, and includes data communication circuitry coupled to the processor and to several interfaces arranged to initiate in response to the processor and a push/pull operation a sequence. A data signal is pushed from the processor to the interfaces to be held in a data latch (26) of a selected (6a) interface for outputting to one of the devices. A subsequent second sequence is produced where a data signal is pulled from second data latch (20) of the selected interface to the processor.

The following communication circuit may comprise any of the following configurations: one bus line for transmitting data and initiating a push/pull operation; one push/pull initiation line and one bus line; one push/pull initiation line and bus line for each of the interfaces. One push/pull initiation line, one bus line coupling the interface in a chain and a clock line for synchronising the push/pull operation may also be used.

USE/ADVANTAGE - E.g. vehicle air conditioner. Execution time required to write data to interface and to then read data from interface is reduced. (27pp Dwg.No.2/9

Title Terms: DATA; INTERFACE; SYSTEM; VEHICLE; ENGINE; DATA; SIGNAL; PUSH ; MICROCOMPUTER; INTERFACE; HELD; LATCH; PULL; SECOND ; LATCH

Derwent Class: T01; W01; X22

International Patent Class (Main): G06F-013/42

International Patent Class (Additional): G05B-019/00; G05B-023/02;

G06F-013/00 ; H04L-012/28

File Segment: EPI

19/5/25 (Item 25 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

07640712 \*\*Image available\*\*  
**PUSH** TYPE DATA DISTRIBUTION SYSTEM, MOBILE COMMUNICATION TERMINAL USED  
FOR THE SAME, AND CALL SERVER DEVICE

PUB. NO.: 2003-134566 [JP 2003134566 A]  
PUBLISHED: May 09, 2003 (20030509)  
INVENTOR(s): ARATAKE TATSUO  
IRUKAYAMA TAKETAKA  
APPLICANT(s): AICON KK  
NTT DOCOMO INC  
APPL. NO.: 2001-325806 [JP 2001325806]  
FILED: October 24, 2001 (20011024)  
INTL CLASS: H04Q-007/38; G06F-013/00 ; H04M-003/42; H04M-011/00;  
H04Q-007/20

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a **push** type data distribution system that allows a server device to surely **update** the data of a mobile communication terminal on a proper opportunity and realizes a form available of application data in **response** to a plurality of kinds of the data.

**SOLUTION:** In the **push** type data distribution system provided with at least a call server device 5 and a mobile communication terminal 4, the mobile communication terminal 4 is started in **response** to a call from the call server device 5, the call server device 5 transmits data together with data kind information distributed at calling to allow the mobile communication terminal 4 to start an application in **response** to the data. The mobile communication terminal 4 uses the application to request the call server device 5 to distribute data and receives **newest** data at a prescribed opportunity.

COPYRIGHT: (C)2003,JPO

L Number	Hits	Search Text	DB	Time stamp
1	0	(reciev\$3 near2 ack\$6) same (notif\$6 with (portion\$1 or token\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:07
2	0	(reciev\$3 near2 ack\$6) and (notif\$6 with (portion\$1 or token\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:07
3	2	(reciev\$3 near2 ack\$6) same (portion\$1 or part\$1 or first or second)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:09
4	0	(updat\$3 or synchronz\$5) same (reciev\$3 near5 ack\$6)	USPAT; US-PGPUB;	2004/08/25 13:10
			EPO; JPO;	
5	0	707/206.ccls. and (reciev\$3 with ack\$6)	DERWENT; IBM_TDB USPAT; US-PGPUB;	2004/08/25 13:10
6	0	(updat\$3 or synchroniz\$5) same (reciev\$3 near5 ack\$6)	EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:10
7	3	(updat\$3 or synchroniz\$5) and (reciev\$3 near5 ack\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:11
9	2	((notification\$1 with updat\$3) same ack\$6) and 709/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:12
8	14	(notification\$1 with updat\$3) same ack\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:15
10	1	synchroniz\$5 and (notif\$6 with (portions or token\$1)) and (reciev\$3 with ack\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:32

11	0	<b>synchroniz\$5 and (notif\$6 with (portions or token\$1)) and (fail\$3 with reciev\$3 with ack\$6)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:32</b>
12	0	<b>synchroniz\$5 and (message\$1 with (portions or token\$1)) and (fail\$3 with reciev\$3 with ack\$6)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:32</b>
13	0	<b>synchroniz\$5 and (message\$1 with (portions or token\$1)) and (fail\$3 same reciev\$3 same ack\$6)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:33</b>
14	0	<b>709/248.ccls. and (reciev\$3 with ack%7)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:35</b>
15	0	<b>709/248.ccls. and (reciev\$3 with ack\$7)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:35</b>
16	0	<b>707/206.ccls. and (reciev\$3 with ack\$7)</b>	<b>IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:35</b>
17	0	<b>707/\$.ccls. and (reciev\$3 with ack\$7)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:35</b>
18	0	<b>707/\$.ccls. and (reciev\$3 with (ACK or ack\$7))</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:36</b>
19	1	<b>707/\$.ccls. and (reciev\$3 same (ACK or ack\$7))</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:38</b>
20	739	<b>updat\$3 with (ACK or ack\$6)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:38</b>

21	40912	<b>updat\$3 with reciev\$3 with ACK or ack\$6</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:40</b>
22	0	<b>updat\$3 with reciev\$3 with (ACK or ack\$6) with fail\$3</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:39</b>
23	0	<b>(updat\$3 with reciev\$3 with (ACK or ack\$6)) same (fail\$3 with reciev\$3)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:40</b>
24	0	<b>(updat\$3 with reciev\$3 with (ACK or ack\$6)) and (fail\$3 with reciev\$3)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:40</b>
25	0	<b>updat\$3 with reciev\$3 with (ACK or ack\$6)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:40</b>
26	0	<b>updat\$3 same (reciev\$3 with (ACK or ack\$6))</b>	<b>IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;</b>	<b>2004/08/25 13:41</b>
27	17	<b>updat\$3 with fail\$3 with (ACK or ack\$6)</b>	<b>IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;</b>	<b>2004/08/25 13:42</b>
28	0	<b>(updat\$3 with fail\$3 with (ACK or ack\$6)) and ((re-send or resend) with (notification\$1 or message\$1))</b>	<b>IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;</b>	<b>2004/08/25 13:43</b>
29	3	<b>(updat\$3 same (fail\$3 with (ACK or ack\$6))) and ((re-send or resend) with (notification\$1 or message\$1))</b>	<b>IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;</b>	<b>2004/08/25 13:47</b>
30	0	<b>(updat\$3 same sychroniz\$4) and (reciev\$3 with (ACK or ack\$6))</b>	<b>IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:47</b>

31	0	<b>updat\$3 and (reciev\$3 with (ACK or ack\$6)) and (fail\$3 same (resend\$3 or re-send\$3) same (notification\$1 or message\$1))</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:49</b>
32	0	<b>updat\$3 and (reciev\$3 with (ACK or ack\$6)) and (fail\$3 same (resend\$3 or re-send\$3))</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:50</b>
33	149	<b>updat\$3 and (ACK or ack\$6) and (fail\$3 same (resend\$3 or re-send\$3))</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:50</b>
34	17	<b>(updat\$3 with notification\$1) and (ACK or ack\$6) and (fail\$3 same (resend\$3 or re-send\$3))</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 13:52</b>
35	20	<b>(updat\$3 with notification\$1) and (ACK or ack\$6) and ((fail\$3 or NACK) same ((send\$3 or transmit\$5) with (first or second)))</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT;</b>	<b>2004/08/25 15:41</b>
36	139	<b>leff.in.</b>	<b>IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 15:14</b>
37	6	<b>leff.in. and synchroniz\$5</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 15:15</b>
38	1	<b>leff.in. and synchroniz\$5 and legacy</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 15:17</b>
39	534	<b>oracle.as. and updat\$3</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 15:17</b>
40	7	<b>oracle.as. and updat\$3 and (ACK or ack\$5)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 15:20</b>

41	7	<b>oracle.as. and (updat\$3 or synchroniz\$4) and (ACK or ack\$5)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 15:21</b>
42	7	<b>oracle.as. and (updat\$3 or synchroniz\$4) and (ACK or ack\$5 or NACK)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 15:22</b>
43	3	<b>(updat\$3 with notification\$1) and (ACK or ack\$6) and ((fail\$3 or NACK) same ((send\$3 or transmit\$5) with (first or second))) and (resend\$3 or re-send\$3)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 16:00</b>
44	0	<b>"push synchronization"</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 16:00</b>
45	0	<b>"push synchronization"</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT;</b>	<b>2004/08/25 16:02</b>
46	0	<b>"pushing and pulling synchronization"</b>	<b>IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 16:03</b>
47	0	<b>"pushing and pulling synchronization"</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 16:03</b>
48	4	<b>"pushing synchronization"</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 16:03</b>
49	0	<b>"pushing synchronization" and (ACK or ack\$5)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 16:03</b>
50	11661	<b>((push\$3 or pull\$3) synchronization) and (ACK or ack\$5)</b>	<b>USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB</b>	<b>2004/08/25 16:04</b>

51	4858	((push\$3 or pull\$3) synchronization) and (ACK or ack\$5) and (fail\$3 or NACK)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:04
52	130	((push\$3 or pull\$3) synchronization) and (ACK or ack\$5) and ((fail\$3 or NACK) same (send\$3 with (part\$1 or portion\$1)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:08
53	93	((push\$3 or pull\$3) synchronization) and (ACK or ack\$5) and ((fail\$3 or NACK) same (send\$3 with (part\$1 or portion\$1)))) and notification\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:07
54	24	((push\$3 or pull\$3) synchronization) and (ACK or ack\$5) and ((fail\$3 or NACK) same (send\$3 with (part\$1 or portion\$1)))) and notification\$1) and 709/\$.ccIs.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:08
55	1	((push\$3 or pull\$3) synchronization) same (ACK or ack\$5) same (fail\$3 or NACK) same (send\$3 with (part\$1 or portion\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/25 16:09
56	0	((push\$3 or pull\$3) synchronization) same (ACK or ack\$5) same ((fail\$3 or NACK) with (send\$3 with (part\$1 or portion\$1)))	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/08/25 16:10
57	1	((push\$3 or pull\$3) synchronization) same ((ACK or ack\$5) same (fail\$3 or NACK) same (send\$3 with (part\$1 or portion\$1)))	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:10